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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6: C11D 1/04, 1/66, 9/00, 1/62, A61K 7/48, 7/50, C07C 53/126, 53/128, 69/24

(11) International Publication Number: A3

WO 99/20722

(43) International Publication Date:

29 April 1999 (29.04.99)

(21) International Application Number:

PCT/US98/22054

(22) International Filing Date:

19 October 1998 (19.10.98)

(30) Priority Data:

60/063,603

23 October 1997 (23.10.97)

US

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- (81) Designated States: BR, CA, CN, JP, MX, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(88) Date of publication of the international search report: 8 July 1999 (08.07.99)

(54) Title: FATTY ACIDS, SOAPS, SURFACTANT SYSTEMS, AND CONSUMER PRODUCTS BASED THEREON

(57) Abstract

Novel fatty acids and derivatives thereof such as salts, new surfactant systems comprising one or more of these compounds, consumer products such as laundry products, personal care products, pharmaceutical compositions, industrial cleaners, and the like comprising said compounds of surfactant systems.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C11D1/04 C11D1/66 C11D9/00 C11D1/62 A61K7/48 C07C53/128 C07C69/24 A61K7/50 C07C53/126 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C11D A61K C07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X GB 1 213 333 A (ETHYL CORPORATION) 25 1,10,12, 14-16 November 1970 see page 1, column 1, line 11 - line 16; claims 1-3 see page 2, column 2, line 98 - line 105 X DATABASE WPI 1,16 Section Ch, Week 8821 Derwent Publications Ltd., London, GB; Class B05, AN 88-145120 XP002092011 & JP 63 088 123 A (TSURUI YAKUHIN KK) , 19 April 1988 Α see abstract 14,15 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 20 04 1999 4 February 1999 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Saunders, T

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Category *	tition) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Category	Citation of document, with indication, where appropriate, of the resevant passages	Holovan to class vo.
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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: all in part because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see further information sheet
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: See further information sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional lee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-20 (partially)
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INF RMATION CONTINUED FROM PCT/ISA/ 210

In the present set of claims a very high number (well in excess of 2000) of different acids (and esters, stereoisomer or salts thereof) is presented. This set of claims violates the requirements of Article 6 PCT relating to clarity and conciseness. The presentation makes it so difficult to determine the matter for which protection is sought (Article 6 PCT) that a meaningful search over the whole breadth of the claims is impossible. Furthermore, the applicant has already indicated in the present application (cf. pages 2-4) that many of the actually claimed compounds are already well known in the art. This makes it even more unclear to determine the matter for which protection is sought.

For this reason it has been decided to limit the search to the 77 different acids (including their soap derivatives) specifically disclosed in Examples 1-82, and to the various intended uses as disclosed in claims 10-13 and 19.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-20 (all in part)

6-, 7- and 10-methyltridecanoic acid, their esters, stereoisomers or salts, and their various uses.

2. Claims: 1-20 (all in part)

5-, 8- and 9-methylpentadecanoic acid, their esters, stereoisomers or salts, and their various uses.

3. Claims: 1-20 (all in part)

2,5-, 2,7-, 2,9-, 2,11- and 2,13-dimethyltetradecanoic acid, their esters, stereoisomers or salts, and their various uses.

4. Claims: 1-20 (all in part)

2,5-, 2,7-, 2,9-, 2,11-, 2,13-, 7-8, 8,9- and 9,10-dimethylpentadecanoic acid, their esters, stereoisomers or salts, and their various uses.

5. Claims: 1-20 (all in part)

2,5-, 2,7-, 2,9-, 2,11-, 2,13- and 2,15-dimethylhexadecanoic acid, their esters, stereoisomers or salts, and their various uses.

6. Claims: 1-20 (all in part)

2,7-, 2,9-, 2,11-, 2,13-, 2,15- and 9,10-dimethylheptadecanoic acid, their esters, stereoisomers or salts, and their various uses.

7. Claims: 1-20 (all in part)

2,5-, 2,7-, 2,11-, 2,13-, 2,15- and 2,17-dimethyloctadecanoic acid, their esters, stereoisomers or salts, and their various uses.

8. Claims: 1-20 (all in part)

6,7-dimethylundecanoic acid, its esters, stereoisomers or salts, and their various uses.

9. Claims: 1-20 (all in part)

7,8-dimethyltridecanoic acid, its esters, stereoisomers or

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

salts, and their various uses.

10. Claims: 1-20 (all in part)

5-, 6-, 7-, 8-, 9- or 11-methyl-2-ethyltridecanoic acid, their esters, stereoisomers or salts, and their various uses.

11. Claims: 1-20 (all in part)

5-, 6-, 7-, 8-, 9-, 10-, 11- and 13-methyl-2-ethytetradecanoic acid, their esters, stereoisomers or salts, and their various uses.

12. Claims: 1-20 (all in part)

6- and 9-ethyltridecanoic acid, their esters, stereoisomers or salts, and their various uses.

13. Claims: 1-20 (all in part)

7-, 8- and 9-ethylpentadecanoic acid, their esters, stereoisomers or salts, and their various uses.

14. Claims: 1-20 (all in part)

5- and 9-propyldodecanoic acid, their esters, stereoisomers or salts, and their various uses.

15. Claims: 1-20 (all in part)

6-, 7- and 9-propyltetradecanoic acid, their esters, stereoisomers or salts, and their various uses.

16. Claims: 1-20 (all in part)

5-, 6-, 7-, 8-, 9-, 10- and 11-methyl-2-propyldodecanoic acid, their esters, stereoisomers or salts, and their various uses.

17. Claims: 1-20 (all in part)

5-, 6-, 7-, 8-, 9-, 10- and 11-methyl-2-propyltridecanoic acid, their esters, stereoisomers or salts, and their various uses.

18. Claims: 19,20 (all in part)

FURTHER INFORMATION C NTINUED FROM PCT/ISA/ 210								
Fabric softeners containing quaternary nitrogen compounds, optionally with branched fatty acid substituents on the nitrogen atom, as the softener-active substance.								
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information on patent family members

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